

Material Safety Data Sheet

FRP-121



1. Product and Company Identification

Material name

FRP-121

Patent Number

Not available

Version No.

2

CAS#

Mixture

Product use

FRICTION REDUCER

Manufacturer information

Clearwater International L.L.C. 100 Leetsdale Industrial Drive

100 Leetsdale Moustrial Di

Leetsdale, PA 15056 US

Emergency

CHEMTREC 1-800-424-9300/703-527-3887 CHEMTREC 1-800-424-9300/703-527-3887

Supplier information

Universal Well Services, Inc.

18360 Technology Drive Meadville, PA 16335 US RECEIVED

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2. Hazards Identification

Emergency overview

Harmful by inhalation, in contact with skin and if swallowed. Harmful if absorbed through the skin. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

OSHA.

OSHA regulatory status

Potential health effects

Routes of exposure
Eves

Inhalation. Skin contact. Eye contact. Ingestion. Harmful in contact with eyes. Avoid contact with eyes.

Skin

Harmful in contact with skin. Avoid contact with the skin.

Inhalation

Harmful if inhaled. Do not breathe dust/fume/gas/mist/vapors/spray.

Ingestion

Harmful if swallowed. Do not ingest.

Potential environmental effects

Ecological injuries are not known or expected under normal use.

3. Composition / Information on Ingredients

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

4. First Aid Measures

First aid procedures

Eye contact

Skin contact

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention

if irritation develops or persists.

Wash off with soap and water. Get medical attention if irritation develops or persists.





Engineered Chemistry™

Inhalation

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.

Ingestion

If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice.

General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties Extinguishing media

Not a fire hazard. The product is not flammable.

Suitable extinguishing media **Protection of firefighters**

Dry chemical, CO2, water spray or regular foam.

Protective equipment and precautions for firefighters

Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

6. Accidental Release Measures

Personal precautions

Local authorities should be advised if significant spillages cannot be contained. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away. Sta, upwind. Keep out of low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Methods for containment

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Large Spills: Dike far ahead of liquid spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. After removal flush contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

Never return spills in original containers for re-use.

7. Handling and Storage

Handling

Use only with adequate ventilation. Wash thoroughly after handling. Avoid contact with clothing.

Storage

Store in a closed container away from incompatible materials. Store in accordance with local/regional/national/international regulation.

8. Exposure Controls / Personal Protection

Personal protective equipment

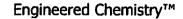
Eye / face protection Skin protection

Wear chemical goggles. Face-shield.

Wear chemical protective equipment that is specifically recommended by the

manufacturer. It may provide little or no thermal protection. Protective gloves. Imperviou gloves.







Réspiratory protection

General hygeine considerations

Wear positive pressure self-contained breathing apparatus (SCBA).

Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

clothing.

9. Physical & Chemical Properties

Appearance

Color

Odor

Odor threshold Physical state

Form рΗ

Melting point

Freezing point **Boiling point**

Flash point

Evaporation rate Flammability

Flammability limits in air, upper,

% by volume

Flammability limits in air, lower, % by volume

Vapor pressure Vapor density

Specific gravity

Relative density Solubility (water)

Partition coefficient

(n-octanol/water)

Auto-ignition temperature

Decomposition temperature

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Not available

Not available

Not available

Not available

Liquid. Liquid.

N.D

Not available

Not available

Not available

Not available Not available.

Not available

Not available

Not available

Not available

0.65

0.6499 g/cm3 estimated

soluble

Not available

N.A

Not available

10. Chemical Stability & Reactivity Information

Chemical stability

Stable at normal conditions.

Incompatible materials

None known.

Possibility of hazardous reactions

Hazardous polymerization does not occur.

11. Toxicological Information

Sensitization

Chronic effects Carcinogenicity **Neurological effects** Not expected to be hazardous by OSHA criteria. Not expected to be hazardous by OSHA criteria.

Not expected to be hazardous by OSHA criteria. Not expected to be hazardous by OSHA criteria.

.... A Weatherford Company





12. Ecological Information

Ecotoxicity

This product has no known eco-toxicological effects.

13. Disposal Considerations

Disposal instructions

Consult authorities before disposal. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

14. Transport Information

Department of Transportation (DOT) Requirements

Not regulated as hazardous goods.

Department of Transportation (DOT) Requirements

Bulk

Not regulated as hazardous goods.

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as hazardous goods.

Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as dangerous goods.

IMDG

Not regulated as hazardous goods.

IMDG

Not regulated as dangerous goods.

IATA

Not regulated as hazardous goods.

15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

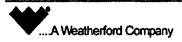
Occupational Safety and Health Administration (OSHA)

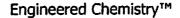
29 CFR 1910.1200 hazardous No

chemical

CERCLA (Superfund) reportable quantity

None







Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No

Reactivity Hazard - No

Section 302 extremely

hazardous substance

Section 311 hazardous chemical

No

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Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS	S) Yes
United States & Puerto Rico		Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

16. Other Information

HMIS® ratings

Health: 1

Flammability: 0

Physical hazard: 0

NFPA ratings

Health: 1

Flammability: 0

Instability: 0

Prepared by

Product Stewardship

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MSDS sections updated

Product and Company Identification: Alternate Trade Names